

SPIE--Int. Soc. Opt. Eng. 1912/pp. 252-260 (1993), Nippon Shashin Gakkaishi 55(6)/pp. 456-464 (1992), Journal of Imaging Technology 16(6)/pp. 238ff (1990) and many other publications.

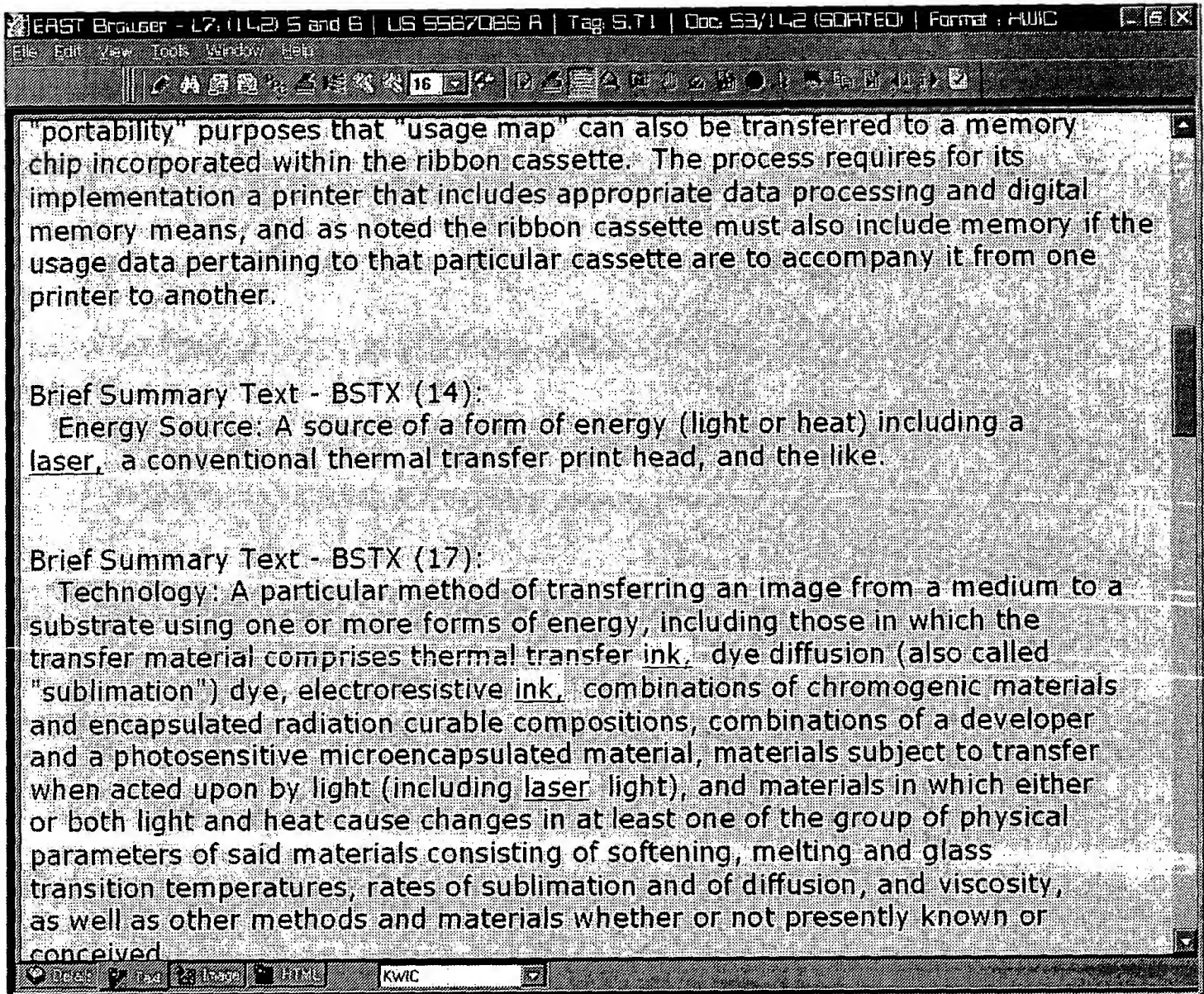
**Brief Summary Text - BSTX (272):**

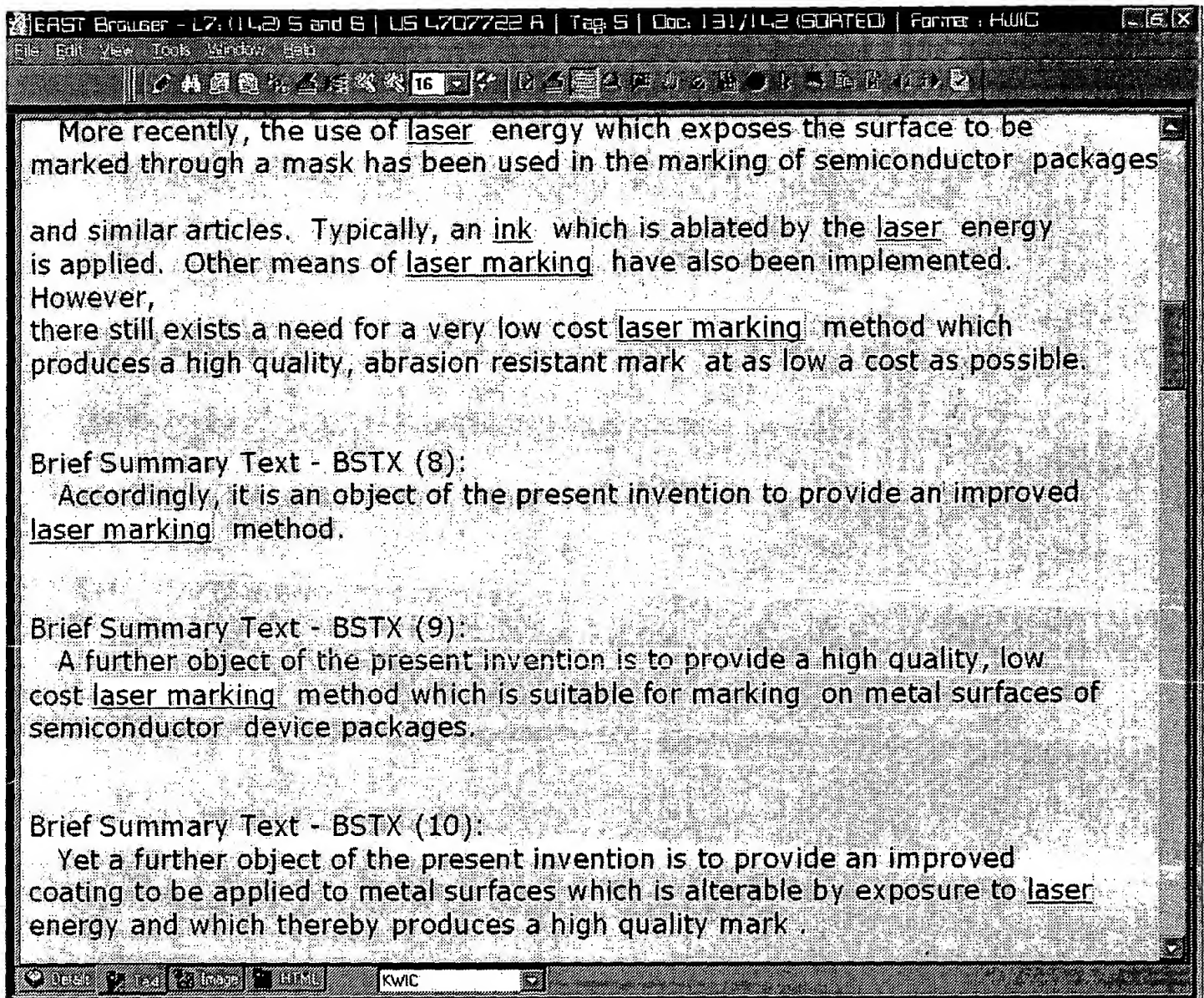
The principle of thermal dye diffusion transfer is the following: a thin donor sheet (usually 1-10  $\mu\text{m}$ ) containing the dye is brought in contact with a receiver material, then heat is generated in a way such that the desired quantity of dye transfers to selected target areas. This can be achieved by simple heating of a broad area, but usually electronically controlled thermal array heads moving across the back surface of the donor are used.

Alternatively, a high-intensity light flash (EP-391303, EP-529362) through a screen or a laser source (Proc. SPIE--Int Soc. Opt Eng. 1912/p. 261 ff. [1993]) can be used; preferably a laser beam focussed onto the donor is used as an energy source; in this case, the donor layer preferably contains IR dyes which convert the light into heat, the laser is an IR laser (as in EP-529561) and extremely high resolutions can be obtained.

**Brief Summary Text - BSTX (273):**

Thus, thermal dye diffusion transfer is a completely dry process totally under electronic control, leading as desired to continuous or full tone images in mosaic pixel patterns, such as needed for electronic photography printouts, color proofing and especially colour filters for LCD's.





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